

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

~~Claim 1. (Currently Amended) An imaging arrangement adapted to receive two~~
dimensional optical data represented by at least two beams of electromagnetic radiation, the arrangement comprising means for gating and converting the at least two beams into image data, ~~which means for gating and converting the beams into image data, includes and~~ a single electro-optic device comprising a photosensitive surface, which surface is arranged to comprise a plurality of independently-gatable portions, wherein the independently gatable portions correspond to each of the at least two beams of electromagnetic radiation each portion being responsive to an image signal, and wherein the means for gating and converting the at least two beams into image data is arranged to provide a whole image from an object to each respective portion of the photosensitive surface.

Claim 2. (Previously Presented) An imaging arrangement as claimed in claim 1, wherein the device comprises an image intensifier.

Claim 3. (Previously Presented) An imaging arrangement as claimed in claim 2, wherein the image intensifier comprises a segmented photocathode.

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Claim 4. (Previously Presented) An imaging arrangement as claimed in claim 3, wherein the segmented photocathode comprises a photocathode layer and a segmented conductive layer adjacent the photocathode layer.

Claim 5. (Previously Presented) An imaging arrangement as claimed in claim 1, wherein the device comprises a solid-state imager.

Claim 6. (Previously Presented) An imaging arrangement as claimed in claim 5, wherein the solid state imager comprises segmented imaging sections.

Claim 7. (Previously Presented) An imaging arrangement as claimed in claim 5, wherein the solid state imager further comprises erasing means for erasing an image corresponding to one of the at least two beams.

Claim 8. (Previously Presented) An imaging arrangement as claimed in claim 5, wherein the solid state imager further comprises overwriting means for overwriting an image corresponding to one of the at least two beams.

Claim 9. (Cancelled)

Claim 10. (Currently Amended) An imaging arrangement as claimed in claim 1, further comprising means for splitting an incident beam of electromagnetic radiation into at least two

beams of electromagnetic radiation for application to the means for gating and converting the at least two beams.

Claim 11. (Original) An imaging arrangement as claimed in claim 10, wherein the means for splitting the incident beam into a plurality of beams comprises chromatic means for ~~splitting each of the plurality of beams into a plurality of differently-coloured beams.~~

Claim 12. (Currently Amended) An imaging arrangement as claimed in claim 11, wherein the independently-gated portions of the means for gating and converting the at least two beams into image data correspond with each of the plurality of differently-coloured beams.

Claim 13. (Previously Presented) An imaging arrangement as claimed in claim 1, further comprising means responsive to an event for storing converted image data which was converted before the event.

Claim 14. (Currently Amended) An imaging arrangement for two dimensional optical data represented by an incident beam of electromagnetic radiation, the arrangement comprising:

- means for splitting the incident radiation beam into a plurality of beams,
- means for gating and converting the plurality of beams into image data,
- wherein the means for gating and converting the [beam] plurality of beams into image data includes a single electro-optic device having independently-gated portions corresponding to each of the plurality of beams, and each of the plurality of beams corresponds to a whole image of an object.

Claim 15. (Currently Amended) A method of imaging two dimensional optical data represented by a beam of electromagnetic radiation, the method comprising:

splitting the radiation beam into a plurality of beams;

gating the plurality of beams;

~~converting the gated beams into image data;~~

wherein the gating of the plurality of beams is performed using a single electro-optic device having independently-gated portions corresponding to each of the plurality of beams, and each of the plurality of beams corresponds to a whole image of an object.

Claims 16-32. (Cancelled)

Claim 33. (Previously Presented) Apparatus as claimed in claim 2, wherein the image intensifier comprises a photocathode that is controlled capacitively by a segmented, external electrode.

Claim 34. (Previously Presented) Apparatus as claimed in claim 2, wherein the image intensifier comprises a photocathode that is controlled capacitively by a segmented, external electrode.

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Claim 35. (New) An imaging arrangement adapted to receive a plurality of images, said imaging arrangement comprising:

an electro-optic device comprising a photosensitive surface, which surface is arranged to comprise a plurality of independently-gatable portions, wherein each respective portion of the photosensitive surface is arranged to gate a whole image from an object, and the electro-optic device is arranged to output the whole image from each respective portion of the photosensitive surface.

Claim 36. (New) An imaging arrangement adapted to receive a plurality of images, said imaging arrangement comprising:

an electro-optic device comprising a photosensitive surface, which surface is arranged to comprise a plurality of independently-gatable portions, wherein each respective portion of the photosensitive surface is arranged to gate a whole image from an object, and the electro-optic device is arranged to output image data corresponding to the whole image from each respective portion of the photosensitive surface.